

**R** **eception**

**S** **taging**

**RSO&I**  
**a new name**  
**for a old**  
**problem**

**O** **nward**  
**Movement**

**I** **ntegration**

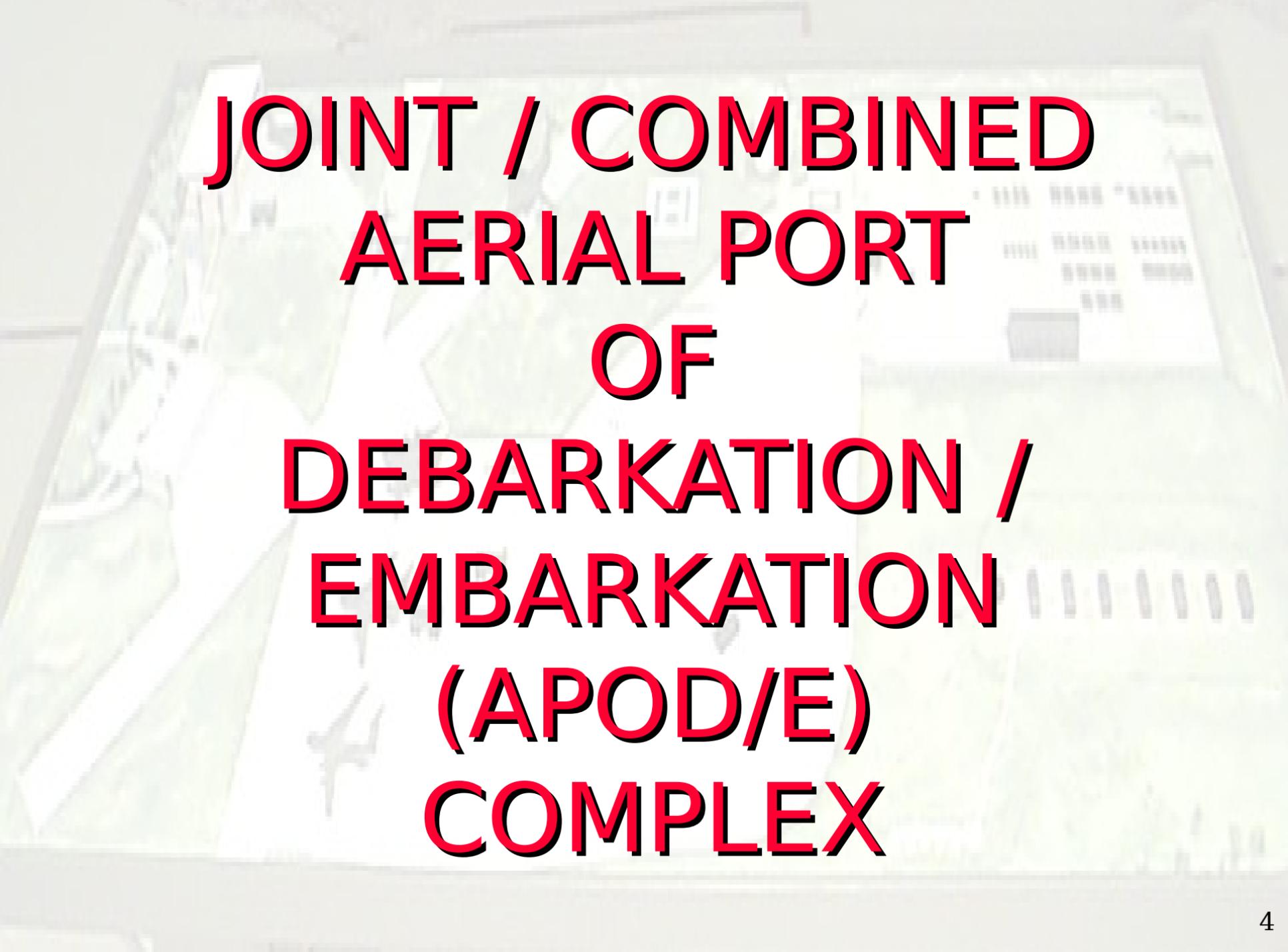
# Principles of RSO&I



# Elements of *Reception*

*Reception*   *Staging*   *Onward Movement*   *Integration*



An aerial photograph of an airport terminal and surrounding runways, serving as a background for the text.

**JOINT / COMBINED  
AERIAL PORT  
OF  
DEBARKATION /  
EMBARKATION  
(APOD/E)  
COMPLEX**

# Mock-up Airfield



# APOD/E Responsibilities

**USAF**

**APS**

## Aerial Port Squadron (APS)



# APOD/E Responsibilities

**Tanker Airlift  
Control  
Element  
(TALCE)**

**Arrival/  
Departure  
Airfield  
Control  
Group  
(A/DACG)**

**USAF**

**USA**

***TALCE***

***A/DACG***

# APOD/E Responsibilities

**Air Terminal  
Movement  
Control  
Team  
(ATMCT)**

**USA**

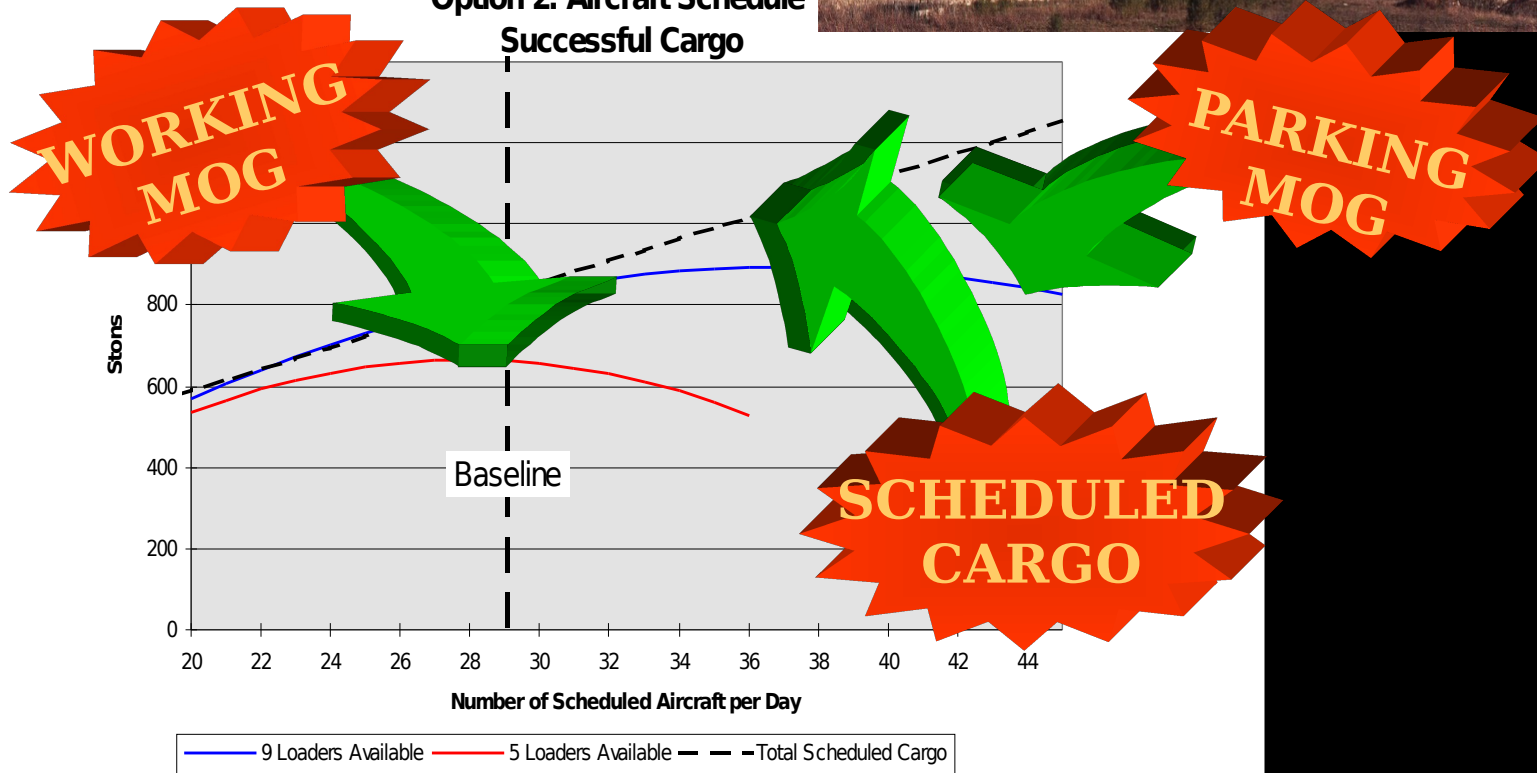
**ATMCT**

**A/DACG**

# Aerial Port Capability



Option 2: Aircraft Schedule  
Successful Cargo



# APOD/E Enablers



**Airfield (Arrival/Departure)**



**Rough Terrain Cargo Handler (RTCH)**



**Seaport (Ship Ro-Ro)**



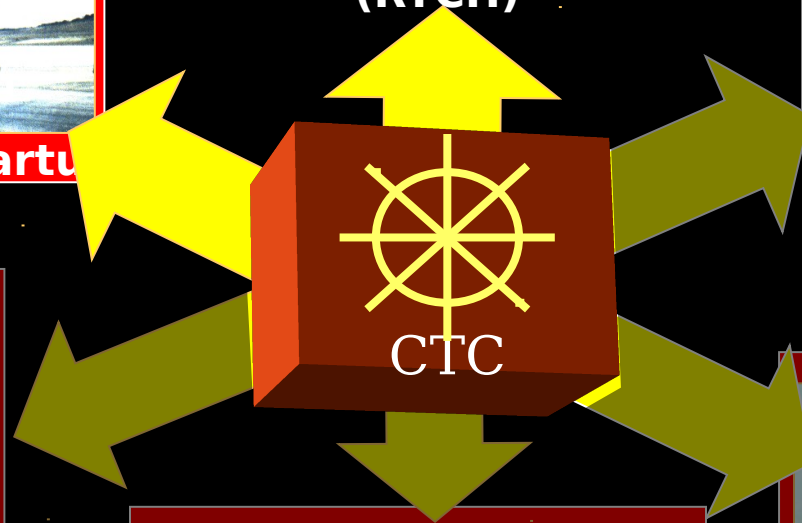
**Seaport (Ship Lo-Lo)**



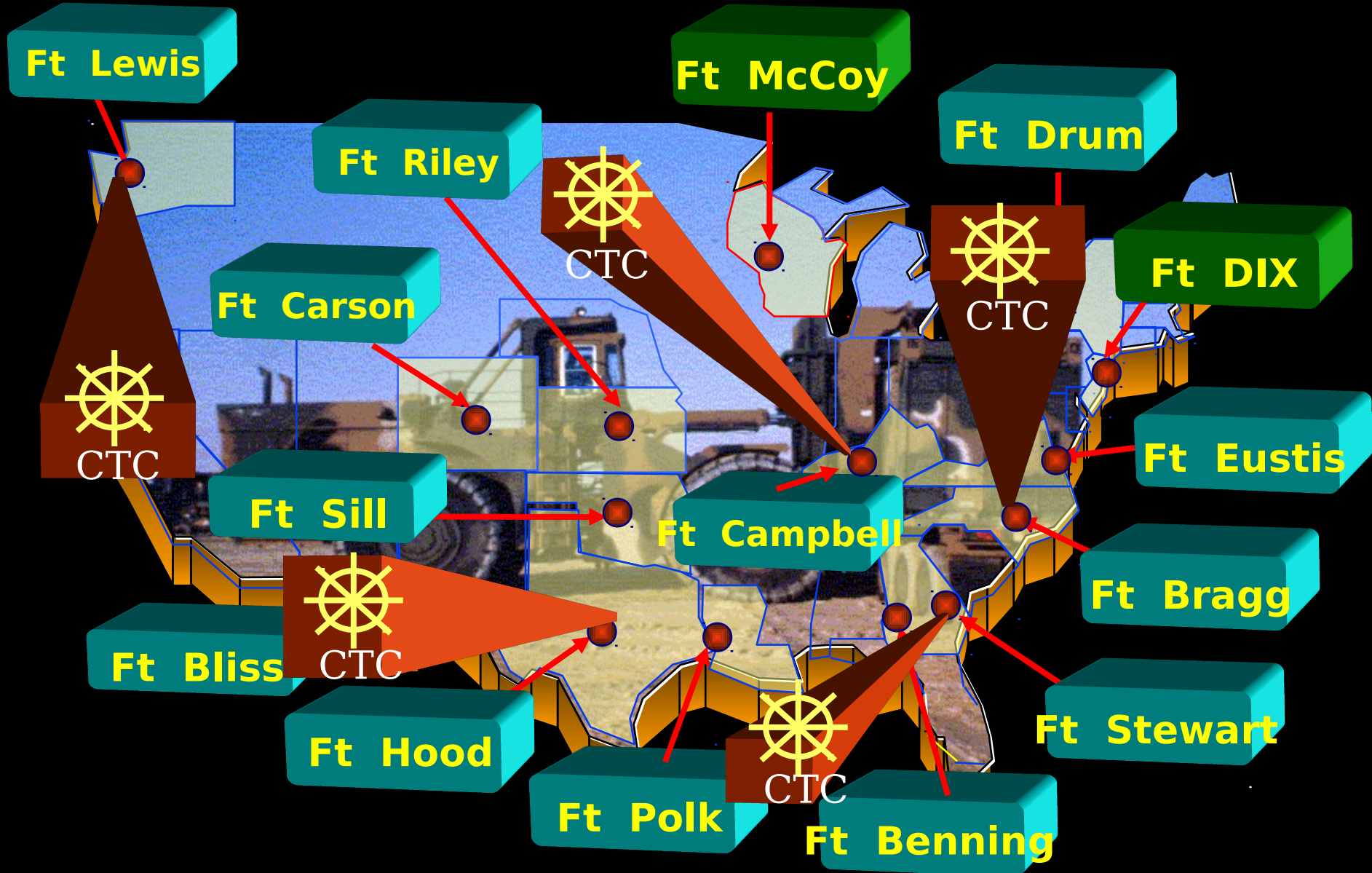
**Railhead Ops**



**Logistics-Over-the-Shore**



# Cargo Transfer Companies (CTC)



# Cargo Transfer Company Employment



# Three Types of Ports

*“...port denial is one of the most likely early scenarios.”*

*Mobility Requirements Study*



**Improved Port**  
(World-Class Port)



**Unimproved Port**  
(Denied or Degraded Port)



**Bare Beach**  
(No Port)

# Improved Port



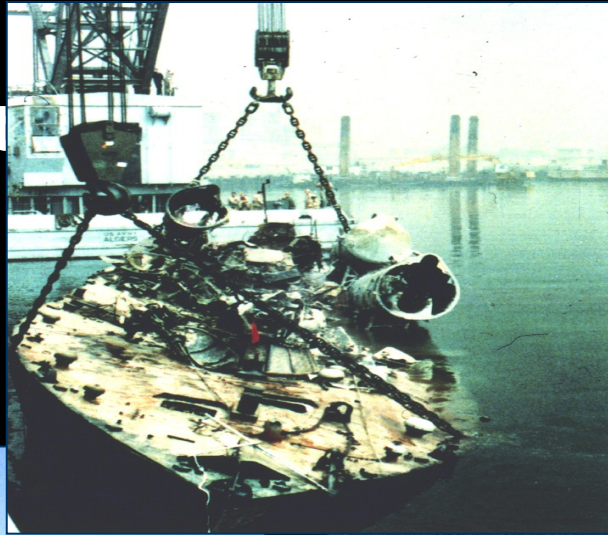
**Dammam, Saudi Arabia**

**Pusan, Korea**

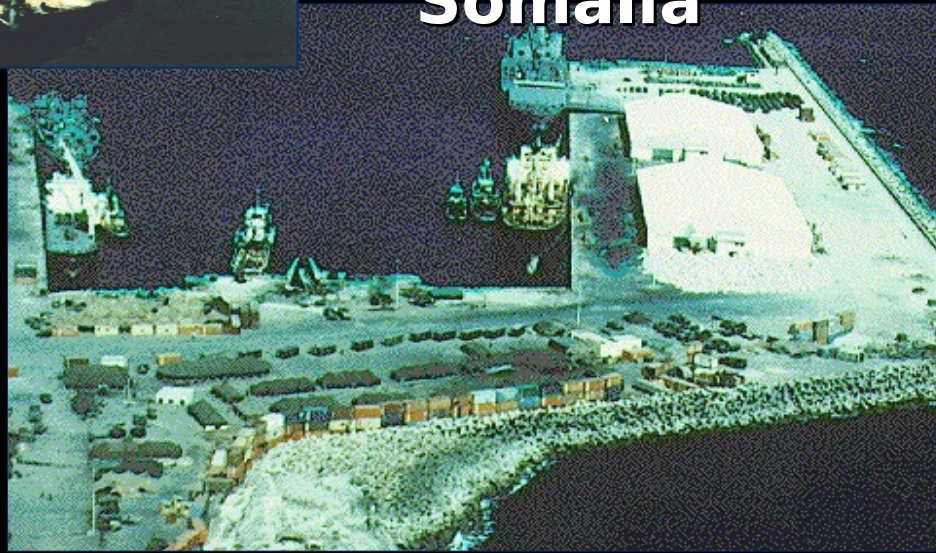


# Degraded Port

**Kuwait**



**Somalia**



**Haiti**

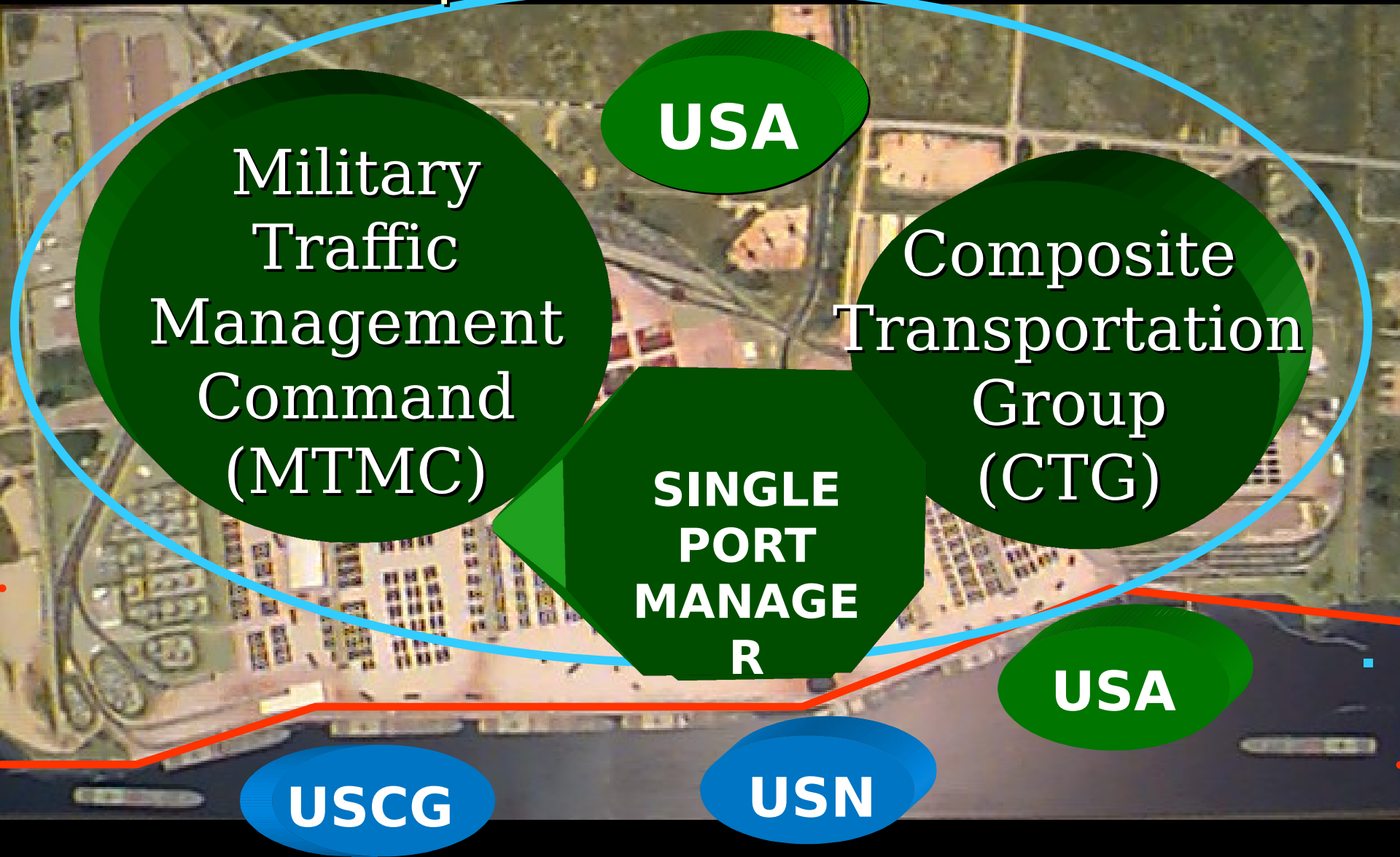


**Constraint Factor of Sealift  
is...**

A black and white photograph of a large cargo ship docked at a port. The ship has multiple masts and cranes. A large, 3D-style grey arrow with a white outline points from the left towards the right, partially obscuring the ship. The text "Throughput of Port" is written in a blue, italicized serif font across the middle of the arrow.

***Throughput of Port***

# SPOD Responsibilities

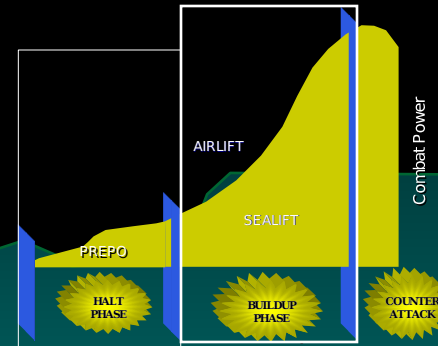


# SPOD Functions

- **Water Terminal Operations**
- **Driver Holding Area**
- **Container Holding Area**
- **Frustrated Cargo Holding Area**
- **Vehicle Marshaling Area**
- **Helicopter Marshaling/Fly-Away**
- **Convoy Assembly Area**
- **Rail Head**

# Surge Sealift

2 Hours  
Each  
Aircraft



Main  
Body

Theater  
Staging  
Base



Port Support  
Activity

Advance Party

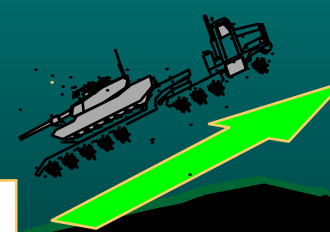
Port Openers

SEAPORT

2-3  
Days  
Vessel  
Discharge



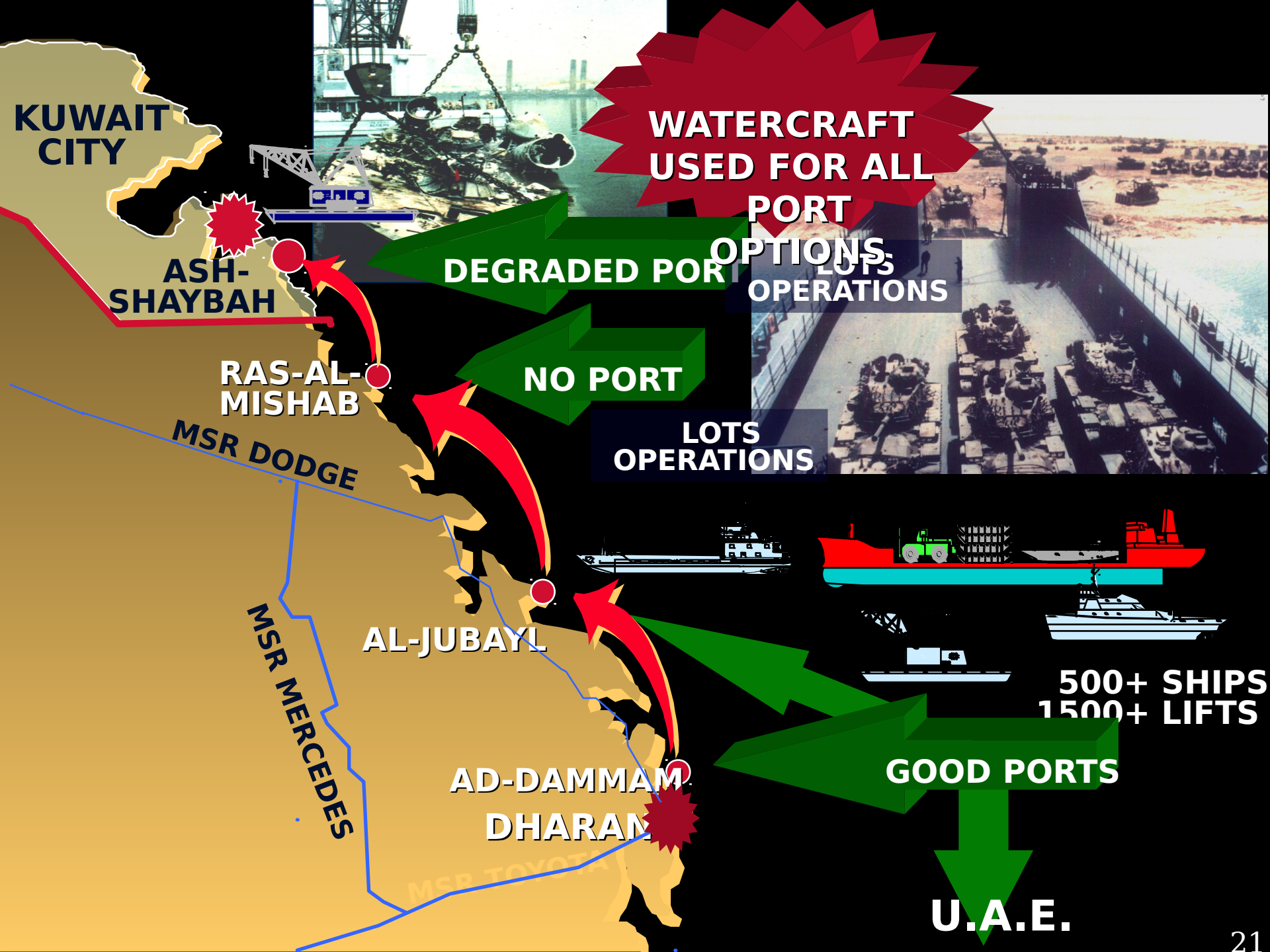
2 Days



The background of the slide is a photograph of a beach. In the foreground, there is a sandy beach with some green grass. In the middle ground, there are several military vehicles, including what appear to be Humvees and a larger truck, parked on the sand. In the background, the ocean is visible with several large ships, including what look like naval vessels or cargo ships, and a few smaller boats. The sky is blue with some white clouds.

# Joint Logistics

## Over the Shore (JLOTS)



# Roll-on Roll-off Discharge Facility



# Sea State

**Sea  
State**

**Description**

**Wave  
Height**

**0**

**Calm**

**none**

**1**

**Smooth**

**< 1 foot**

**2**

**Slight**

**1-3 feet**

**3**

**Moderate**

**3-5 feet**

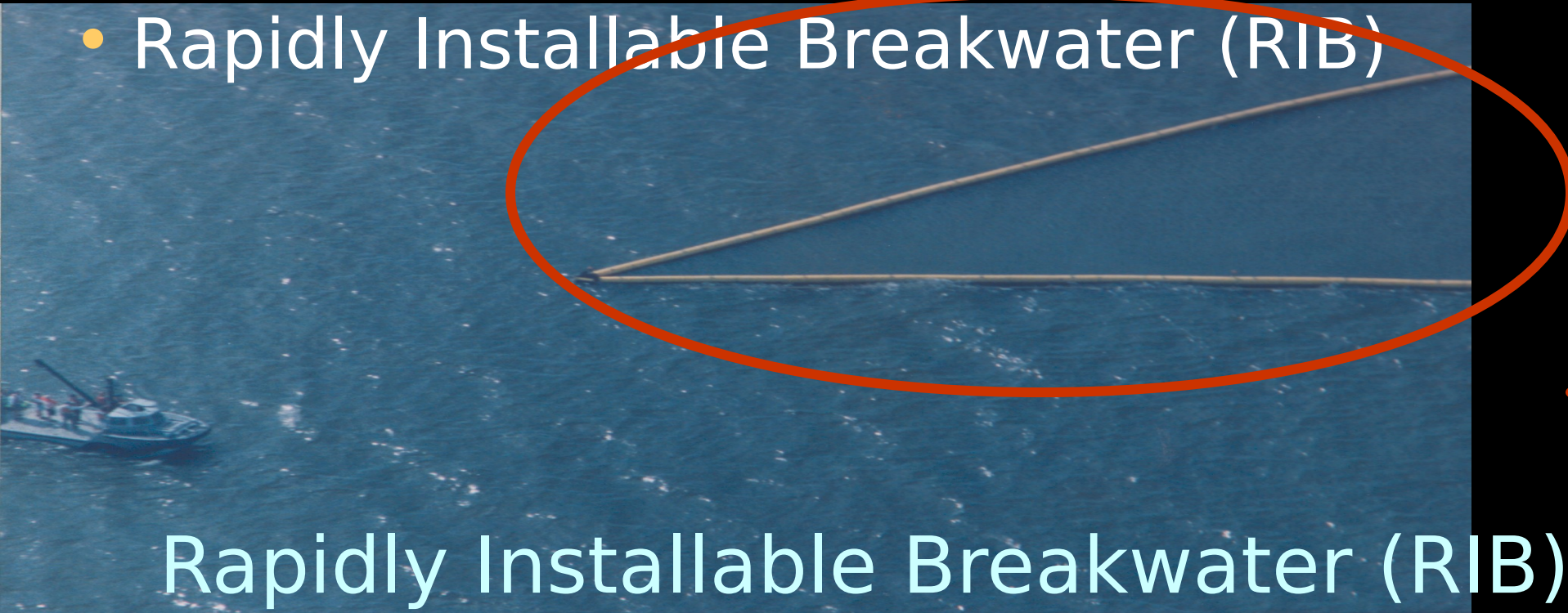
**4**

**Rough**

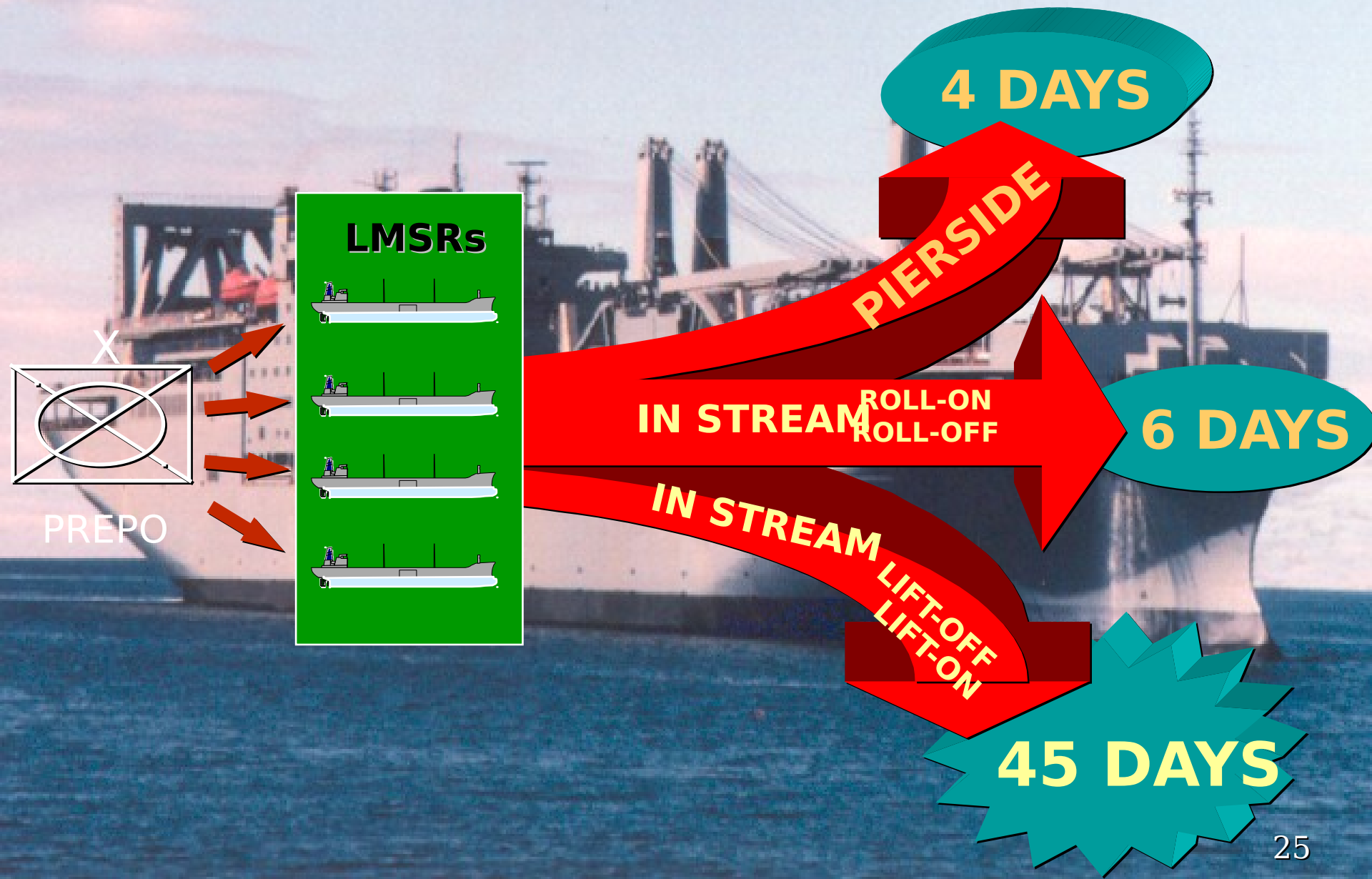
**5-8 feet**

# JLOTS Enablers

- Army Watercraft
- Roll-On/ Roll-Off Discharge Facility (RRDF)
- Rapidly Installable Breakwater (RIB)



# PREPO Off-load

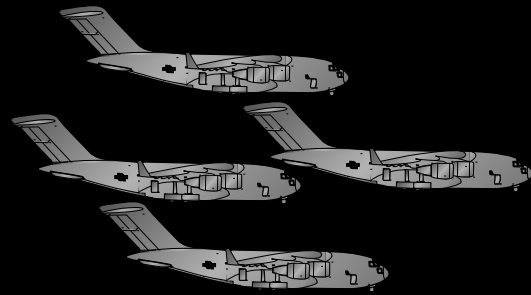


Elements of

# STAGIN

*Reception Staging Onward Movement Integration*

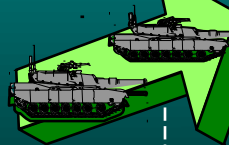
# G



**Airport**

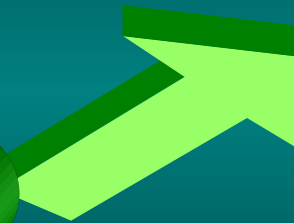


**STAGING AREA**



**Seaport**

**OBJECTIVE AREA**



**R S O & I**

# Staging

***Preparation of units for onward movement to incrementally build forces capable of meeting the commander's operational requirements***

**Warehouse  
Saudi  
Arabia**

# Staging Challenges

- ✓ Security
- ✓ NEO Effects
- ✓ Real Estate Management
- ✓ Host Nation Support
- ✓ Logistics Footprint
- ✓ TPFDD Flow
- ✓ Communications
- ✓ Force Management



**THROUGHPUT  
TO PRODUCE  
COMBAT  
POWER**

# Types of Staging Bases

- Theater Staging Base (TSB)
- Convoy Support Center (CSC)
- Rest-Over-Night Site (RON)
- Aircraft Enroute Support Site (AESS)
- In-Theater Railheads / Airfields
- Prepositioned Equipment Site (PES)
- Others .....

# TSB Layout

**DESERT  
STORM  
AVG TIME  
9 DAYS**

**RAIL FACILITY**

**VEHICLE MARSHALING**

**TEST  
LOOP**

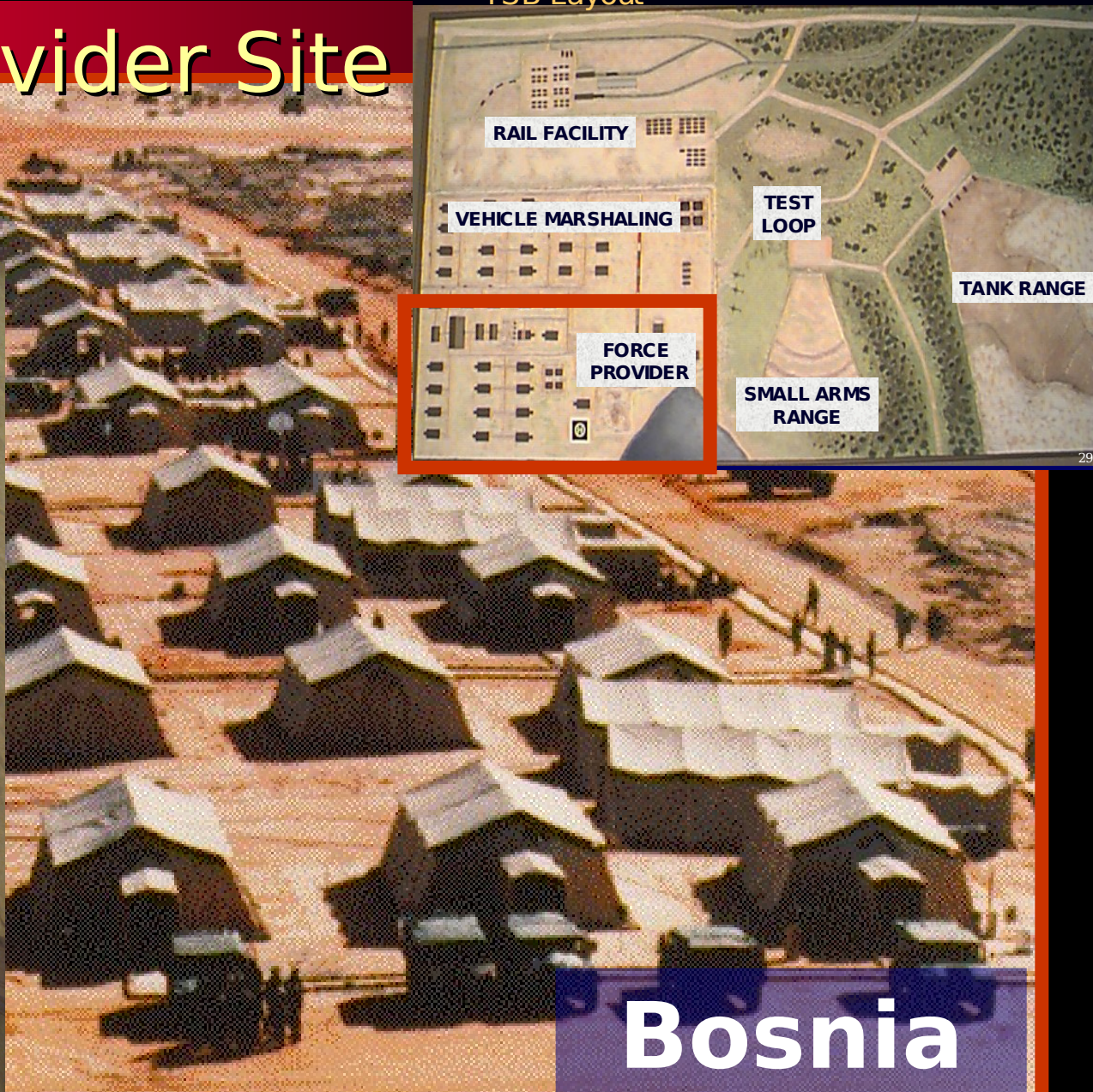
**FORCE XXI  
STANDARD  
2 DAYS**

**FORCE  
PROVIDER**

**TANK RANGE**

**SMALL ARMS  
RANGE**

# Force Provider Site



# Railway Facility



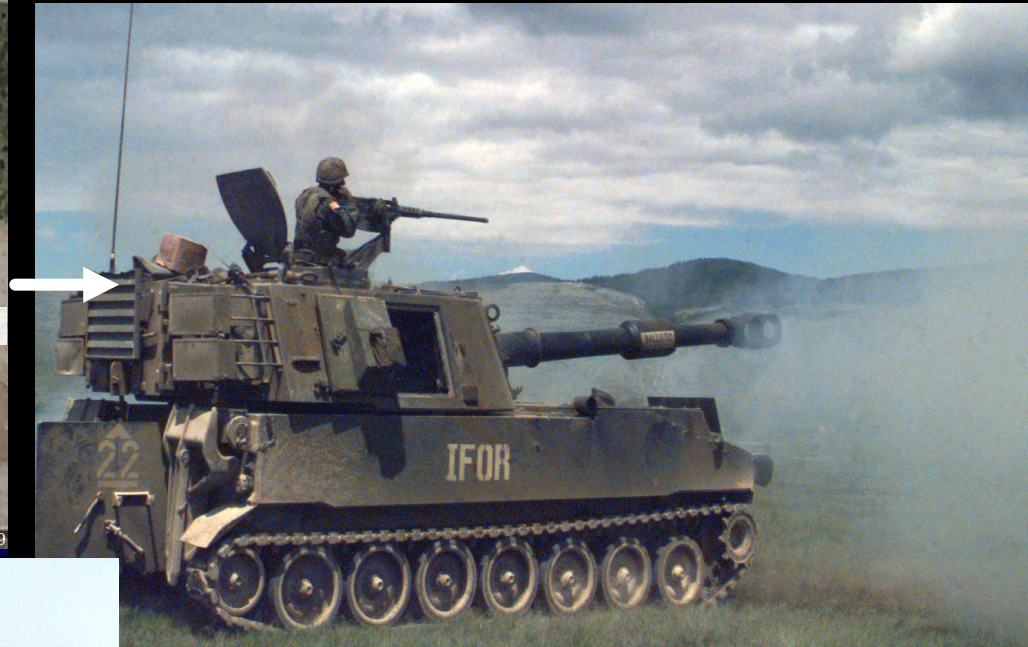
TSB Layout



## Vehicle Marshalling

29

# TSB Layout



# Ranges

Elements of

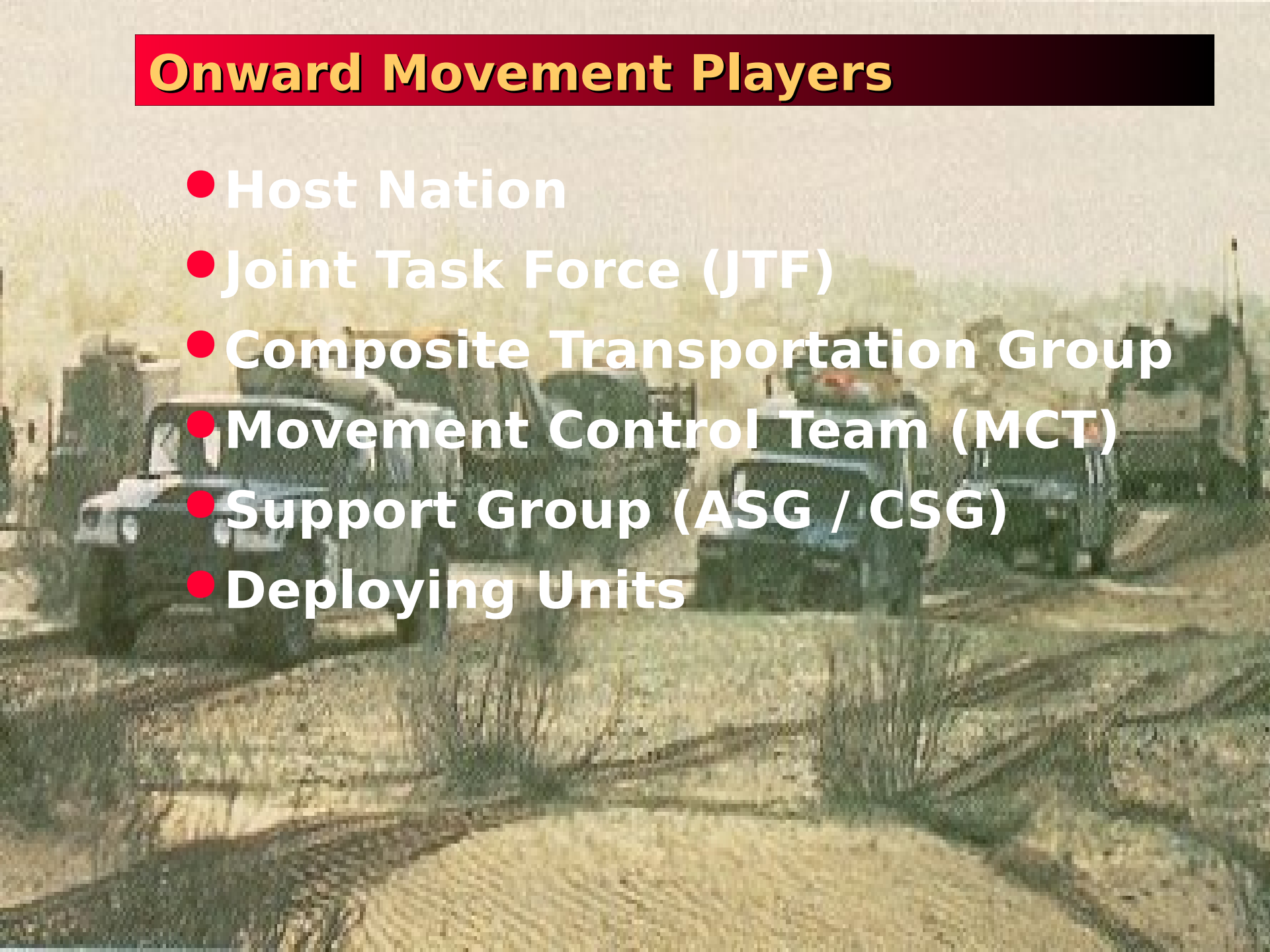
# Onward Movement

Reception Staging Onward Movement Integration



# Onward Movement Players

- Host Nation
- Joint Task Force (JTF)
- Composite Transportation Group
- Movement Control Team (MCT)
- Support Group (ASG / CSG)
- Deploying Units

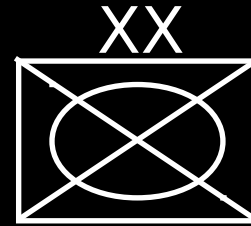


# Onward Movement Functions

- Synchronizing
- Resourcing
- Communicating
- Moving
- Force Tracking
- Reporting
- Preparing for Integration



# Onward Movement Workload

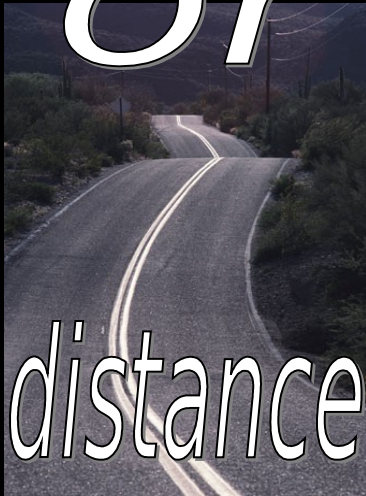


*time*



**1 Vehicle every 13.5 seconds = 24 hours**

*or*



*distance*

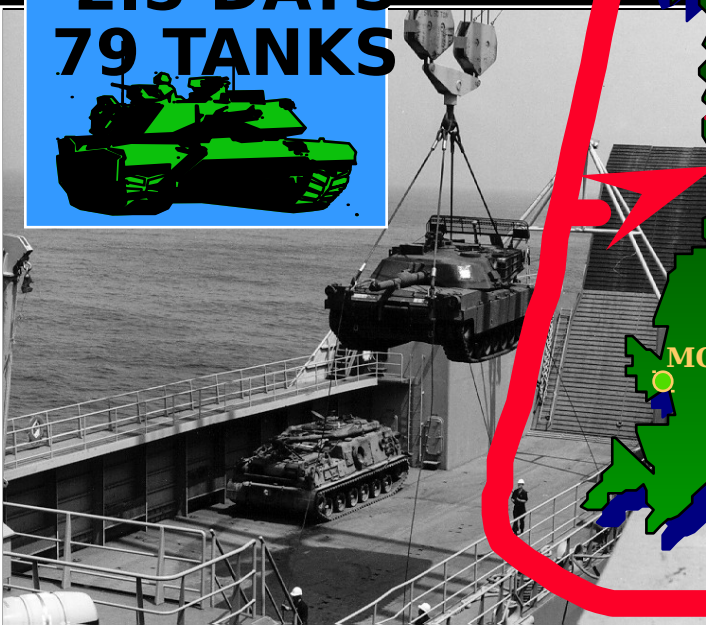


**1 Vehicle every 50 meters = 600 kilometers**

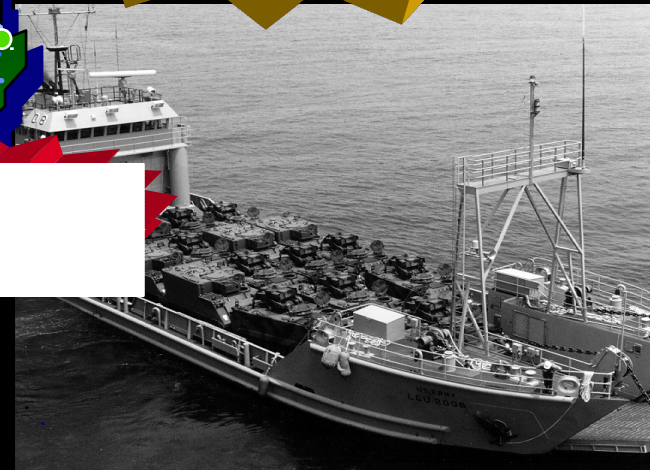
# Onward Movement Challenges



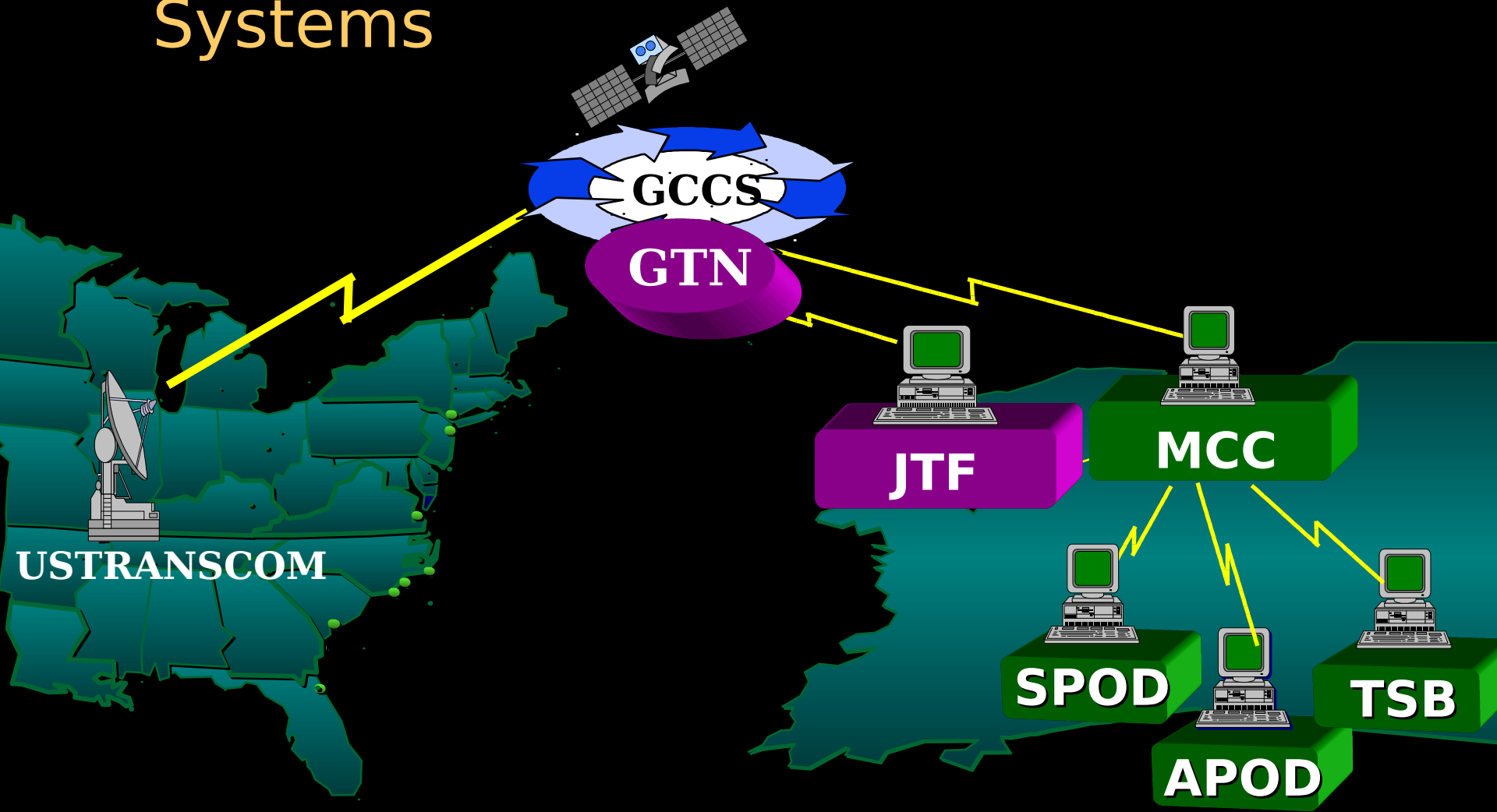
**2.5 DAYS  
79 TANKS**



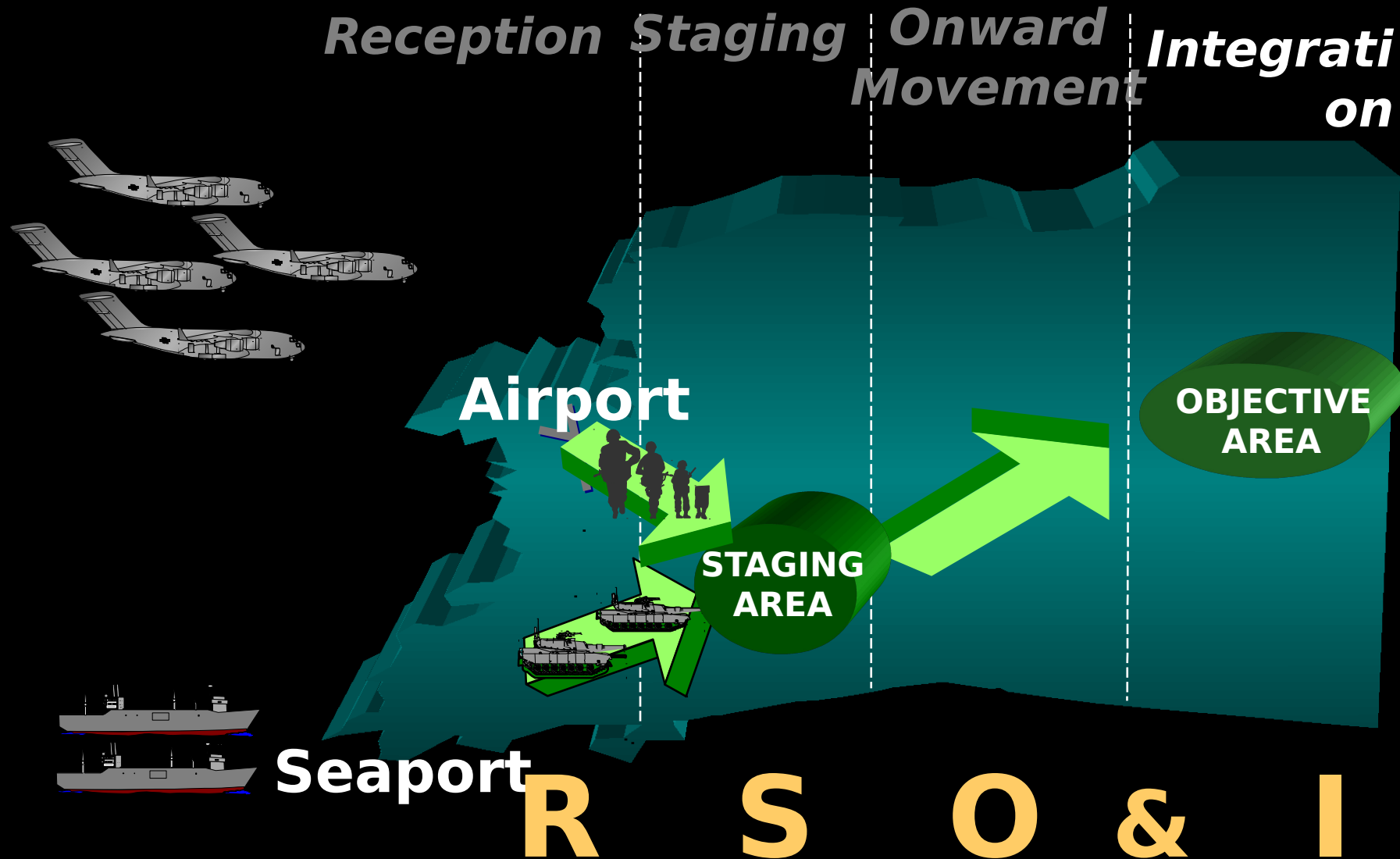
**ALTERNATIVE IF  
MSRs CONGESTED/  
INTERDICTED**



# Onward Movement Information Systems



# Elements of **Integration**



# *Integration*



# Integration Functions

Force Tracking

**SITUATIONAL  
AWARENESS**

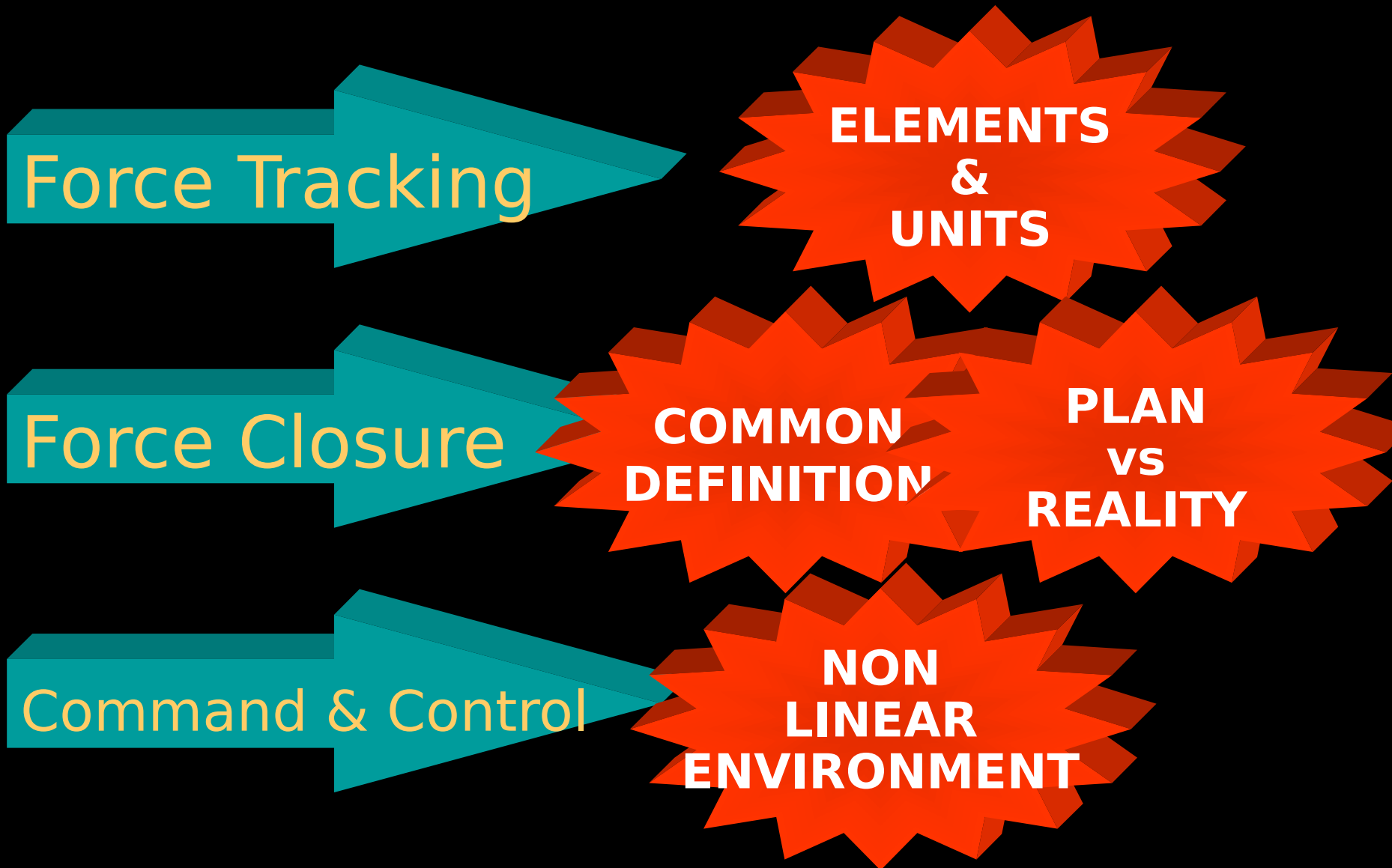
Force Closure

**COMBAT  
POWER**

Command & Control

**BATTLE  
COMMAND**

# Integration Challenges



# Integration Information Systems

